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**From:** Bangma, Jacqueline [Bangma.Jacqueline@epa.gov]  
**Sent:** 1/13/2021 3:01:05 PM  
**To:** Hill, Donna [Hill.Donna@epa.gov]; Strynar, Mark [Strynar.Mark@epa.gov]  
**CC:** Lang, Johnsie [Johnsie.Lang@arcadis.com]  
**Subject:** RE: Ditch notes

2 pm Thursday works well 😊.

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**From:** Hill, Donna <Hill.Donna@epa.gov>  
**Sent:** Wednesday, January 13, 2021 9:35 AM  
**To:** Strynar, Mark <Strynar.Mark@epa.gov>; Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>  
**Cc:** Lang, Johnsie <Johnsie.Lang@arcadis.com>  
**Subject:** RE: Ditch notes

Why don't I bring the samples down around 2pm? My branch meeting starts at 1 and rarely lasts longer than 30 minutes. I can email when I'm on my way.

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**From:** Strynar, Mark <Strynar.Mark@epa.gov>  
**Sent:** Wednesday, January 13, 2021 9:06 AM  
**To:** Hill, Donna <Hill.Donna@epa.gov>; Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>  
**Cc:** Lang, Johnsie <Johnsie.Lang@arcadis.com>  
**Subject:** RE: Ditch notes

I am free anytime for the rest of the day until 4:30 PM.

Mark

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**From:** Hill, Donna <Hill.Donna@epa.gov>  
**Sent:** Tuesday, January 12, 2021 4:30 PM  
**To:** Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>  
**Cc:** Lang, Johnsie <Johnsie.Lang@arcadis.com>  
**Subject:** RE: Ditch notes

Yes- I'm free 10-11am and after 2pm.  
Donna

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**From:** Bangma, Jacqueline <Bangma.Jacqueline@epa.gov>  
**Sent:** Tuesday, January 12, 2021 3:49 PM  
**To:** Hill, Donna <Hill.Donna@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>  
**Cc:** Lang, Johnsie <Johnsie.Lang@arcadis.com>  
**Subject:** RE: Ditch notes

Thanks Donna 😊 Looks like the number for block one also match up with the prelim results in an excel file Johnsie shared, so I am guessing you are correct.

Would you like to meet briefly Thursday for me to pick up the livers?

-Jackie

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**From:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>  
**Sent:** Tuesday, January 12, 2021 2:40 PM  
**To:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lang, Johnsie <[Johnsie.Lang@arcadis.com](mailto:Johnsie.Lang@arcadis.com)>  
**Subject:** RE: Ditch notes

Hi Jackie- I checked the notebook again. I know if Johnsie was removing part of the tissue to homogenize, she would write down the weight. Since she didn't write down weights, I believe she homogenized the whole liver. The liver weights are below:

Animal ID	Sex	Tmt Group	Liver Wt(g)
727-3	F	PFAS	1.18
724-3	F	CON	1.28
673-2	M	CON	1.49
673-3	M	PFAS	1.41
609-1	F	PFAS	1.01
600-2	M	PFAS	1.46

Animal ID	Sex	Tmt Group	Liver Wt(g) 5/31/18
803-2	M	CON	1.2
803-3	M	CON	1.29
806-1	F	CON	0.93
806-2	F	CON	1.04
800-2	M	MIX	1.29
800-3	M	MIX	1.17
803-1	M	CON Cree	1.3
806-3	F	CON Cree	1.04
807-1	F	MIX	0.78
807-2	F	MIX	0.9

Donna

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**From:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>  
**Sent:** Monday, January 11, 2021 12:32 PM  
**To:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lang, Johnsie <[Johnsie.Lang@arcadis.com](mailto:Johnsie.Lang@arcadis.com)>  
**Subject:** RE: Ditch notes

Donna,

Yes, you are correct, the weights used in the homogenization for livers from round 2. ☺

-Jackie

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**From:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>  
**Sent:** Monday, January 11, 2021 11:59 AM  
**To:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lang, Johnsie <[Johnsie.Lang@arcadis.com](mailto:Johnsie.Lang@arcadis.com)>  
**Subject:** RE: Ditch notes

Jackie- that sounds great! I will be at RTP tomorrow and Thursday. I took Johnsie's notebook to my office so I'll double check, but I think I either rewrote or photographed all her notes pertaining to the ditch study. I'll double check on the liver weights. And to clarify, you need the weight of the actual sample homogenized, not the total liver weight?  
Thanks again!  
Donna

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**From:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>  
**Sent:** Monday, January 11, 2021 11:29 AM  
**To:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lang, Johnsie <[Johnsie.Lang@arcadis.com](mailto:Johnsie.Lang@arcadis.com)>  
**Subject:** RE: Ditch notes

Hi Donna and Johnsie,

Have sometime and wanted to start working on the ditch study measurements.

I did some more digging and located serum from both round 1 and 2 in the chest freezer behind Mark's office (6 serum samples for each round). Looks like there are max 25 uL serum per mouse for round 2 and at least that much serum or more from round 1. From the spreadsheet you sent me, all of the livers are also accounted for with the exception of 2 animals in round 1 (IDs 673-2 and 600-2).

From the excel spreadsheets and lab notes shared with me, it looks like block 1 livers had 4 mL of DI water added to the homogenate, and block 2 livers had 3 mL of DI water added to the homogenate. The one piece of info I do not have is the weight of liver tissues used for block 2 homogenization. Do either of you have that info somewhere by any chance?

Since there is considerably less serum available per mouse than liver homogenate, I am hoping to use both the preliminary data from Johnsie's runs as well as run a small aliquot of one or two liver extracts to determine the cal range for each analyte (and check to see if I should add any additional PFAS to the quantitation list). Currently I have GenX, PFOA, PEPA, NBP2, PFO4DA, PFO5DoDA, 6:2FTS, PFMOAA, and PFHxA as the main PFAS of interest. I believe we now have standards for most of these (either synquest, chemours, or wellington).

Let me know if this sounds like a good game plan, if so, we can arrange a time for me to pick up the liver homogenates.

Hope everyone had a wonderful weekend!

-Jackie

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**From:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>  
**Sent:** Friday, December 18, 2020 11:41 AM  
**To:** Bangma, Jacqueline <[Bangma.Jacqueline@epa.gov](mailto:Bangma.Jacqueline@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lang, Johnsie <[Johnsie.Lang@arcadis.com](mailto:Johnsie.Lang@arcadis.com)>  
**Subject:** FW: Ditch notes

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**From:** **Ex. 6 Personal Privacy (PP)**

**Sent:** Friday, December 18, 2020 11:37 AM

**To:** Hill, Donna <[Hill.Donna@epa.gov](mailto:Hill.Donna@epa.gov)>

**Subject:** Ditch notes

*Sent from my Verizon LG Smartphone*